

Amendments to the Specification

Please replace paragraph [0043] with the following amended paragraph:

[0043] A current density calculator **35** calculates the magnitude of the current density J from the magnitude of the electric field E and the tissue resistivity ρ using the microscopic version of Ohm's Law stating that at every point, $\underline{J=E/\rho}$ [[$J=E/\rho$]].

Please replace paragraph [0054] with the following amended paragraph:

[0054] where the probabilities p_k are given by

$$p_k = \chi_A(k) V_k / V_A \quad [[P_k = \chi_A(k) V_k / V_A.]]$$
